



Patent
P56641

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12/23/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

KYUNG-SOO YOO

Serial No.: 10/046,239

Examiner: *to be assigned*

Filed: 16 January 2002

Art Unit: *to be assigned*

For: PHOTOGRAPHING APPARATUS HAVING FUNCTION OF PREVENTING BLUR
OF STILL IMAGE

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner
for Patents
Washington, D.C. 20231

RECEIVED

DEC 17 2002

Technology Center 2600

Sir:

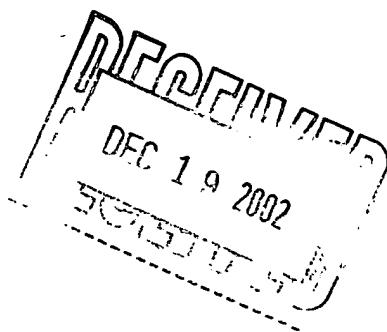
Pursuant to 37 CFR §§1.56, 1.97 and 1.98, applicant cites, provides copies and briefly discusses the following art references:

U.S. PATENT REFERENCES

<u>Patent No.</u>	<u>Inventor(s)</u>	<u>Issued Date</u>
✓ 5,517,243	Kudo et al.	May 14, 1996
✓ 5,245,380	Yang	September 14, 1993
✓ 4,470,687	Saito et al.	September 11, 1984

JAPANESE PATENT REFERENCES

<u>Patent No.</u>	<u>Inventor(s)</u>	<u>Issued Date</u>
✓ JP 11 015040	Kobayashi Koichi	January 22, 1999
✓ JP 2001 117137	Takei Toshiaki	April 27, 2001



✓ JP 08 308275 Hashimoto Takaaki November 22, 1996

OTHER REFERENCES

✓ Communication issued by the European Patent Office on the 16th of October 2001 in co-pending application Serial No. 02251359.2-1241 of the instant inventors.

DISCUSSION

Kudo '243 discusses an accurate aperture diameter provided for high-speed shutter operation with control of the charge storage time of a solid-state image sensor, over different, selectable operational intervals.

Koichi JP '040 provides a mechanical gear train with a spring supplementing the motor power level in order to shorten the closing time of an aperture, when the diameter of the aperture is large.

Toshiaki JP '137 discusses a bipolar permanent magnet rotor with shutter blades that are opened and closed by rotational force applied through a plurality of iron pins by the permanent magnet rotor.

The Yang '380, Saito '687 and Takaaki '275 references were said by the European Examiner in the Communication dated on the 16th of October, to be of background interest.

In accordance with 37 CFR §1.97(e)(1), each item of information contained in the Information Disclosure Statement was cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.

The citation of the foregoing references is not intended to constitute an assertion that other or more relevant art does not exist. Accordingly, the Examiner is requested to make a wide-ranging

and thorough search of the relevant art.

No fee is incurred by the filing of this Information Disclosure Statement. Should any fee remain or be required for filing of this Information Disclosure Statement, the Commissioner is authorized to charge the Deposit Account No. 02-4943 and advise the undersigned attorney accordingly.

Respectfully submitted,



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INFORMATION DISCLOSURE STATEMENT PTO-1449 (PAGE 1 OF 1)			SERIAL NUMBER	10/046,239	DOCKET NO	P56641
			APPLICANT	KYUNG-SOO YOO		
			FILING DATE	16 JANUARY 2002		
U.S. PATENT DOCUMENTS						
EXAMINER INITIALS	DOCUMENT	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,517,243	5/14/96	Kudo et al.			
	5,245,380	9/14/93	Yang			
	4,470,687	9/11/84	Saito et al.			
						RECEIVED DEC 19 2002 Technology Center 2600
FOREIGN PATENT DOCUMENTS						TRANSLATION
DOCUMENT NUMBER	DATE	COUNTRY	CLAS	SUBCLASS	YES	NO
JP 11 015040	1/22/99	Japan			X	
JP 2001 117137	4/27/01	Japan			X	
JP 08 308275	11/22/96	Japan			X	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)						
Communication issued by the European Patent Office on the 16 th of October 2001 in co-pending application Serial No. 02251359.2-1241 of the instant inventors.						
EXAMINER:		DATE CONSIDERED:				
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of form with next communication to applicant.						